

Abstract

A first embodiment of the invention includes a method for scheduling information in a multiple antenna wireless cellular network. The wireless cellular network includes a base transceiver station and a plurality of subscriber units wherein each of the plurality of subscriber units belongs to a service class. The method includes receiving a service flow request from a subscriber unit, determining the service class of the subscriber unit and scheduling time slots and frequency blocks for the service flow request based on the service class of the subscriber unit. A second embodiment of the present invention includes a system for scheduling the transmission of data in a multiple antenna wireless network. The system comprises means for receiving a service flow request from a subscriber unit, means for determining the service class of the subscriber unit and means for scheduling time slots and frequency blocks for the service flow request based on the service class of the subscriber unit. A third embodiment of the invention includes a computer readable medium containing program instructions for scheduling the transmission of data in a multiple antenna wireless network. The program instructions include receiving a service flow request from a subscriber unit, determining the service class of the subscriber unit and scheduling time slots and frequency blocks for the service flow request based on the service class of the subscriber unit.